

# Sewing Machine Pilikia

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# Sewing Machine *Pilikia*\*

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## *What Causes the Upper Thread to Break?*

Machine improperly threaded.

Tension too tight.

Needle bent or having blunt point.

Thread too coarse for size  
of needle.

Burr on needle hole in throat plate,  
caused by breaking needle  
in pulling material from machine.

Burr on needle hole in presser  
foot, caused by sewing over pins  
or breaking needle.

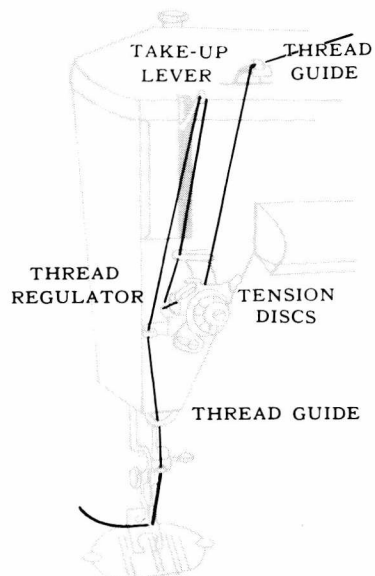
Needle set backwards.

Needle too long for machine,  
or not all the way up in clamp.

Take-up spring bent or broken.  
(*Send for adjuster to repair.*)

Tension discs worn so that  
thread works in groove.

Needle too fine for material  
to be sewn.



\* *Pilikia* means *trouble* in Hawaiian.

### *What Causes the Lower Thread to Break?*

Improper threading of bobbin case or shuttle.

Tension too tight.

Thread wound unevenly on bobbin or bobbin wound too full.

Spring on bobbin case or shuttle worn to sharp groove.

Burr on under side of throat plate, sometimes caused by sewing over pins or breaking needle.

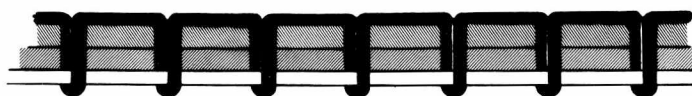
### *What Causes Stitches to Loop?*

Needle not accurately set into the needle bar.

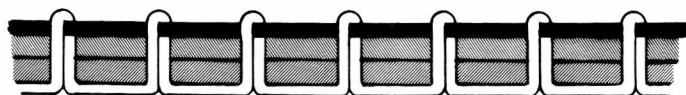
Needle too small for the thread used.

Needle too short for the machine.

Blunt or bent needle.



TOP TENSION TOO LOOSE



BOTTOM TOO LOOSE



CORRECT TENSION

### *How to Avoid Breaking Needles.*

Use proper size of needle for thread and material to be sewn.

See that the presser foot or attachments are securely fastened to bar and that the needle goes through the center of the hole.

Do not pull the material to one side when taking it from the machine. The needle may become bent and strike the side of the hole when starting to sew.

Do not pull material when sewing. The needle may become bent and strike the back of the needle hole.

Do not use a needle that is too long. It is liable to come in contact with the bobbin case and break, probably spoiling the case and requiring replacement.

Use proper needle for your machine.

Do not leave pins in the material after basting and sew over them with the machine, unless the machine has a "walking foot." Even then, keep head of pin out of the way.

### *What Causes Improper Feeding of Fabric?*

Improper feeding may be due to the pressure being too light or too heavy for the fabric.

The feed dog may be worn smooth. This may be determined by running the finger over the teeth. If the teeth are not sharp, the feed dog should be replaced.

On some machines the feed dog can be raised or lowered.

It will not move material if too low.

The stitch regulator may have been turned back so far that the feed is entirely out of action.

Needle may be bent.

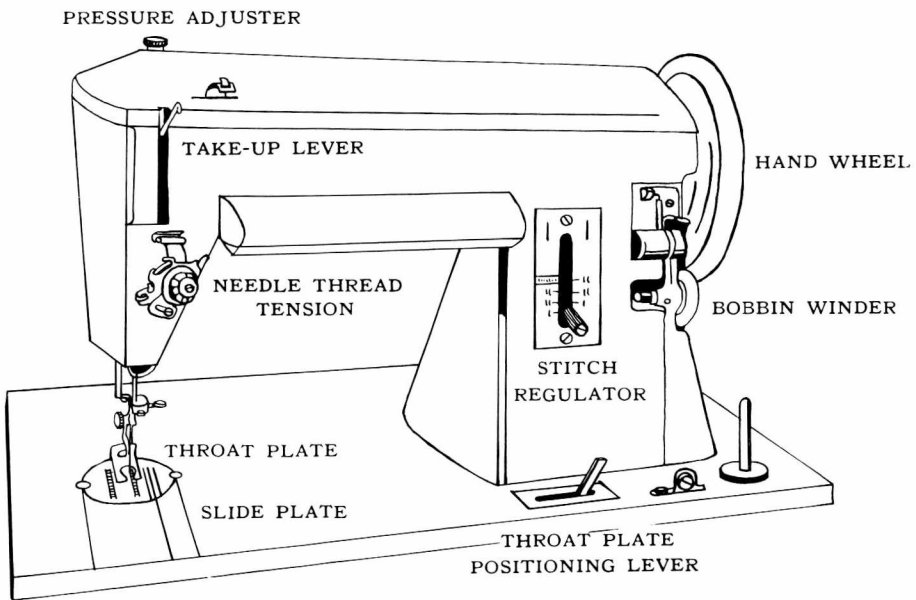
### *What Causes Seams to Pucker?*

Tension too tight.

Stitch too long for material being sewn, especially on fine material.

Wrong presser foot used.





*Principal Parts of the Machine*

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